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APPLICATION NO.	LICATION NO. FILING DATE FIRST NAMED INVENTO		ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/779,374	02/07/2001	Vladimir Mancevski	500929.000008	7983	
75	90 05/16/2006	EXAMINER			
Mr. Paul McClure			SMITH, BRADLEY		
Xidex Corporat			f 	*** ·	
8906 Wall Stree		ART UNIT	PAPER NUMBER		
Austin, TX 78	3754	2891			
		DATE MAILED: 05/16/2006			

Please find below and/or attached an Office communication concerning this application or proceeding.

			Application	on No.	Applicant(s)			
Office Action Summary		09/779,37	09/779,374 MANCEVSKI, VLADIM		ADIMIR			
		Examiner		Art Unit				
•			Bradley K.	Smith	2891			
Peri	od for	The MAILING DATE of this communication appropriate the property of the propert	pears on the	cover sheet with the c	correspondence ad	idress		
	NHICH Extensi after St If NO pe Failure Any rep	RTENED STATUTORY PERIOD FOR REPLIEVER IS LONGER, FROM THE MAILING DOORS of time may be available under the provisions of 37 CFR 1.1 X (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by statute by received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	DATE OF TH 136(a). In no eve will apply and wi e, cause the appl	IIS COMMUNICATION int, however, may a reply be tire the expire SIX (6) MONTHS from ication to become ABANDONE	N. nely filed the mailing date of this c D (35 U.S.C. § 133).			
Stat	us ·							
1	I)⊠ F	Responsive to communication(s) filed on <u>02 N</u>	March 2006					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the me						e merits is		
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disp		n of Claims	•					
ı.L		Claim(s) <u>121,124-127 and 133-136</u> is/are pen	ding in the s	annlication				
#\$	ation.							
5	10011.							
5) Claim(s) is/are allowed. 6) Claim(s) <u>121,124,125 and 134</u> is/are rejected.								
6)⊠ Claim(s) <u>121,124,125 and 134</u> is/are rejected. 7)□ Claim(s) is/are objected to.								
	-	Claim(s) israte objected to: Claim(s) are subject to restriction and/or election requirement.						
			or cicolion it	oquirement.				
App	licatio	n Papers						
	·—	ne specification is objected to by the Examine		·	•	!		
10		ne drawing(s) filed on <u>07 February 2001</u> is/ar		•	-	ner.		
		pplicant may not request that any objection to the						
		eplacement drawing sheet(s) including the correc						
1,1	1)∐ Ti	ne oath or declaration is objected to by the Ex	xaminer. No	te the attached Office	Action or form P	ΓO-152.		
Prio	rity un	der 35 U.S.C. § 119				. ,		
12	2)□ Ad a)□	cknowledgment is made of a claim for foreign All b)☐ Some * c)☐ None of:	n priority und	ler 35 U.S.C. § 119(a)-(d) or (f).			
	1	☐ Certified copies of the priority document	ts have beer	n received.				
	2. Certified copies of the priority documents have been received in Application No							
	3	☐ Copies of the certified copies of the prio				Stage		
		application from the International Burea	u (PCT Rule	e 17.2(a)).		_		
	* Se	e the attached detailed Office action for a list	of the certif	ied copies not receive	ed.			
A++1	hma a w 41 -	1						
_	h ment(s Notice o) - of References Cited (PTO-892)		4) Interview Summary	(PTO_413)			
2)	Notice o	of Draftsperson's Patent Drawing Review (PTO-948)		Paper No(s)/Mail Da	ate			
3) 🗌	informa	tion Disclosure Statement(s) (PTO-1449 or PTO/SB/08) lo(s)/Mail Date)	5) Notice of Informal F 6) Other: search notes		D-152)		

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DETAILED ACTION

Election/Restrictions

Applicant's election without traverse of claims 121, 124, 125, and 134 in the reply filed on 3/2/06 is acknowledged.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 121, 124, and 125 are rejected under 35 U.S.C. 102(e) as being anticipated by Xu et al. Xu et al. disclose at least one vertically oriented carbon nanotube (110); at least one horizontal conductive layer (108), wherein the said horizontal conductive layer is electrically coupled to said vertically oriented carbon nanotube; and wherein the said horizontal conductive layer includes patterned lines (figure 6D). With regards to claim 124, the carbon nanotube is conductive (it emits electrons). With regards to claim 125 Xu et al. disclose the patterned lines consisting of copper (column 5 lines 15-25).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 121, 124, 125 and 134 are rejected under 35 U.S.C. 103(a) as being unpatentable over Choi et al. in view of Narwanker et al. Choi et al disclose at least one vertically oriented carbon nanotube in the substrate (10); at least one horizontal conductive layer (5), wherein the said horizontal conductive layer is electrically coupled to said vertically oriented carbon nanotube; and wherein the said horizontal conductive layer includes patterned lines (figure 5b). With regards to claim 124, the carbon nanotube is conductive (it emits electrons). With regards to claim 125 Xu et al. disclose the patterned lines consisting of tungsten. Choi et al. fails to disclose patterned lines. However Narwanker et al. disclose that patterned metal lines are well known in the art (column 9 lines25-30). Therefore it would have been obvious to one of ordinary in art at the time the invention was made to combine the teachings of Choi et al. and Narwanker, because patterned lines (and the formation of patterned lines) are well known in the art.

Response to Arguments

Applicant's arguments with respect to claims 121, 124, 125, and 134 have been considered but are most in view of the new ground(s) of rejection.

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Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bradley K. Smith whose telephone number is 571-272-1884. The examiner can normally be reached on 10-6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bill Baumeister can be reached on 571-272-1722. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Bradley K Smith Primary Examiner Art Unit 2891 Page 5